

ABSTRACT OF THE INVENTION

Methods and apparatus are provided for an interconnect system for coupling radio frequency signals from one component to another in a RF system. The interconnect system acts as a coaxial connection. The apparatus comprises an interconnect, a dielectric sleeve, and a conductive elastomeric gasket. The interconnect has a first major surface and second major surface for providing an electrical connection. A through hole is formed in a first component. The dielectric sleeve is placed in the through hole. The interconnect is placed in the dielectric sleeve. The conductive elastomeric gasket is placed in proximity to the through hole contacting the first component and a second component. The RF system is assembled compressing the elastomeric gasket to have intimate contact with the first and second component. The intimate contact electrically connects the first and second component and an electric shield is formed around the interconnect thereby suppressing the reception and transmission of RF signals.